

Avocent DSView™ 4 Management Software

Secure, Centralized Access and Control

Infrastructure Management &
Monitoring for *Business-Critical
Continuity™*

Applications

- Secure, remote, centralized data center management of both physical and virtual assets from a single interface
- Access service processors from all major server manufacturers
- Support for blade and virtual servers
- Data logging/archiving for regulatory and audit compliance
- Remote problem resolution
- DS Zones for increased control

Benefits

- Hub and spoke architecture for redundancy and real-time synchronization
- Simple yet precise user permissioning with authentication through internal or external services such as LDAP, active directory, NT domain, TACACS+, RADIUS or RSA SecureID®
- Open framework database for custom reporting options
- FIPS 140-2 appliance compliance support, and 2048 SSL certificate
- VMWare, Citrix XenServer and Hyper-V support for virtual data center assets

The **Avocent®DSView™ 4 management software** provides data centers with a secure, centralized management solution for all IT assets, including virtual and blade servers, VMware and service processors. DSView 4 lets administrators access, diagnose and modify any managed device from any point on the globe, regardless of the health or status of the operating system or network connection to those devices. DSView 4 software makes data center management accessible, manageable, secure, and extensible.

Manageable

DSView 4 provides a single, secure, browser-based interface to manage an entire data center, including the following:

- Blade servers, enclosures
- VMWare® Virtual Infrastructure, ESX Servers and Virtual machines
- Citrix® XENServer™
- Rack mounted servers
- Avocent KVM over IP switches
- Avocent Advanced Console Servers (ACS 5000/6000)
- Power Management Power Distribution Units (PM PDUs)
- Service Processor Managers (SPM)
- Embedded server management technologies
- Third party PDUs and KVM over IP appliances

DSView 4 software provides custom views for each user, graphical report building and task automation tools, along with a holistic view of your network assets no other system can equal. Administrators can design custom reports to fit the needs of individual data centers.

Accessible

The DSView 4 software “hub and spoke” architecture allows for high availability and distributed, consolidated access across locations. The out-of-band features of the DSView 4 software allow administrators to diagnose and repair problems even when gateways, routers or other IP connectivity is down.

Extensible

Data centers evolve. Whether migrating to blades, experimenting with SANs or simply deploying new routers, DSView 4 software helps maintain control by integrating with new technologies and by providing a consistent management interface, regardless of your underlying infrastructure. DSView 4 software offers integration with NetClarity, Uptime Devices, VMWare and others. It also provides an API to integrate third-party applications, tools and systems.

Secure

DSView 4 easily integrates with existing security infrastructure, authenticating against internal or external standards-based services. All traffic is encrypted and the detailed activity logs provide a critical audit trail for issue resolution and regulatory compliance. With the inclusion of FIPS 140-2 appliance compliance and 2048 bit SSL certificates, DSView 4 upgrades security features for a variety of markets. By minimizing the need for local access in the data center, these remote management capabilities allow sensitive machines to be physically locked down for greater peace of mind.



Specifications

DSView 4 software (hub/spoke) minimum requirements

Operating System:

- Microsoft® Windows Server 2003 (x64), 2003 R2 (x64), 2008 (x64), 2008 R2 (x64)
- SuSe® Linux Enterprise Server 10 (x64), 11 (x64)
- RedHat® Enterprise Server 4 (x64), 5.4 (x64)
- Sun™ Solaris SPARC® 9, 10

Hardware Requirements:

Large (> 7000 Target Devices)

Windows/Linux Dedicated Physical Server

- One more more 2+ Ghz CPU
- 6+ GB RAM
- 40+ GB HDD

Sun Server

- 1 Ghz UltraSparc III
- 4+ GB RAM
- 80+ GB HDD

1 gbps/10 gbps LAN

Local or remote database

Medium (1000-7000 Target Devices)

Windows/Linux Dedicated Physical Server

- 2+ Ghz Multi-Core CPU
- 4+ GB RAM
- 40+ GB HDD

Sun Server

- 1 Ghz UltraSparc III
- 4+ GB RAM
- 40+ GB HDD

10 mbps/100 mbps/1 gbps (recommended) LAN

Local or remote database

Small (<1000 Target Devices)

Windows/Linux Dedicated Physical Server or (ESX/Hyper-V)

Virtual Machine (no resource sharing)

- Dedicated processing priority 2+ Ghz
- Dedicated 6 GB RAM
- 40 GB non-expanding HDD

Sun Server

- 1 Ghz UltraSparc III
- 4+ GB RAM
- 40+ GB HDD

10 mbps/100 mbps LAN

Local database

Browser support

- up to Internet Explorer 9 (Windows operating systems only)
- up to Firefox® version 3.6 (version 1.5 required for Mac OS)
- Mozilla® version 1.7.3 or later

Note: If you are using Mozilla or Firefox, the Video Viewer and the Telnet Viewer clients require Java

VMware requirements

VMware VirtualCenter version 2.01 or later

VMware ESX server version up to 4.1 update 2

Microsoft Hyper-V 2008 R2

Xen requirements

Xen Express, Standard, Enterprise or Platinum versions up to 5.5 (only the Enterprise and Platinum versions support resource pool, which is required for XenMotion)

Blades supported

- IBM® blade chassis: BladeCenter, BladeCenter T, BladeCenter H, BladeCenter HT
- IBM blade chassis: PowerEdge 1855, PowerEdge 1955
- HP blade chassis: BladeSystem c-Class, BladeSystem p-Class
- FTS BX600
- Generic blade chassis

Managed appliance support

KVM over IP appliances

- MergePoint Unity® KVM over IP and serial console switch
- DS1800 digital switches
- DSR® KVM over IP switch: 800, 1010, 1020, * 1021, * 1022, * 1024, * 1030, * 1031, * 1161, 2010, 2020, * 2030, * 2035, * 2161, 4010, 4020, * 4030, * 4160, 8020, * 8030, * 8035*
- Cyclades® KVM/net KVM over IP switch
- Cyclades KVM/netPlus KVM over IP switch

*These models contain a modem port for use with the DSR switch remote operations software

Third-party KVM over IP appliances

- Dell 2161DS2, 4161DS and 8321DS
- HP G2 Switches: AF620A, AF621A and AF622A
- IBM GCM2, GCM4, GCM16, GCM32, LCM16, LCM8
- Blackbox: KV21 16A and KV41 16A
- Fujitsu: s2-0411 and s3-1641
- Fujitsu Components Limited: FW-D1008NP, FW-D2016NP, FW-D4016NP, FW-D2032NP, FW-S1008SR, FW-S1016SR, FW-S1032SR, FW-S1048SR

Console management appliances

- ACS, ACS 5000, and ACS 6000 console server appliances
- All CCM console management appliances
- CPS810 and 1610 serial over IP network appliances

Power devices

- Power devices are supported on ACS, CPS and CCM appliances and on all DSR and MergePoint Unity switches that contain one or more SPC ports
- Avocent SPC power control devices
- Avocent PM PDUs: PM 8, PM 10, PM 20, PM 1000, PM 2000 and PM 3000 models
- Liebert MPH and Liebert MPX rack PDUs**

*CPS and CCM appliances do not support

**Liebert Rack PDUs only supported through Ethernet

Third-party power devices

- APC AP71xx, AP78xx and AP79xx series PDUs*
- Server Technologies** Sentry Switched CDU CW-8H1, CW-8H2, CW-16V1, CW-16V2, CW-24V2, CW-24V3, CW-32VD1 and CW-32VD2 (supported models may change; contact Avocent Technical Support for current information)

*PDUs only supported through Ethernet

**Server Technology devices supported only through serial connections on the ACS console server and the DSR switch and MergePoint Unity switch

Service processor managers

- MergePoint® 52xx service processor manager
- MergePoint 53xx service processor manager
- Generic Appliances

Data center devices such as UPS, HVAC and environmental monitoring devices may be managed with DSView 4 management software by launching a standard Web browser to the device URL or opening a Telnet session.

Supported modems

The following modems and serial PCI cards are supported by the DSView 4 software, provided the modems are supported on the DSView 4 server operating system.

- Perle PCI-RAS 4 and PCI-RAS 8, which are backwards compatible with Perle V90 Modem
 - Equinox SST MM 4p Modem
 - Equinox SST 4p Serial
 - Eicon DS series ISDN BRI-2M
 - Eicon DS series ISDN 4BRI-8M
 - DSView 4 software also supports the USR3453B - Courier 56k external modem
- Note: The modems listed are not supported on Sun Solaris SPARC operating systems.

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